



LG

Business
Solutions

MULTI V WATER IV

Efficiency | Easy Installation



WHY?

LG **MULTI V**® SOLUTION

MULTI V WATER IV

MULTI V IV Development Philosophy

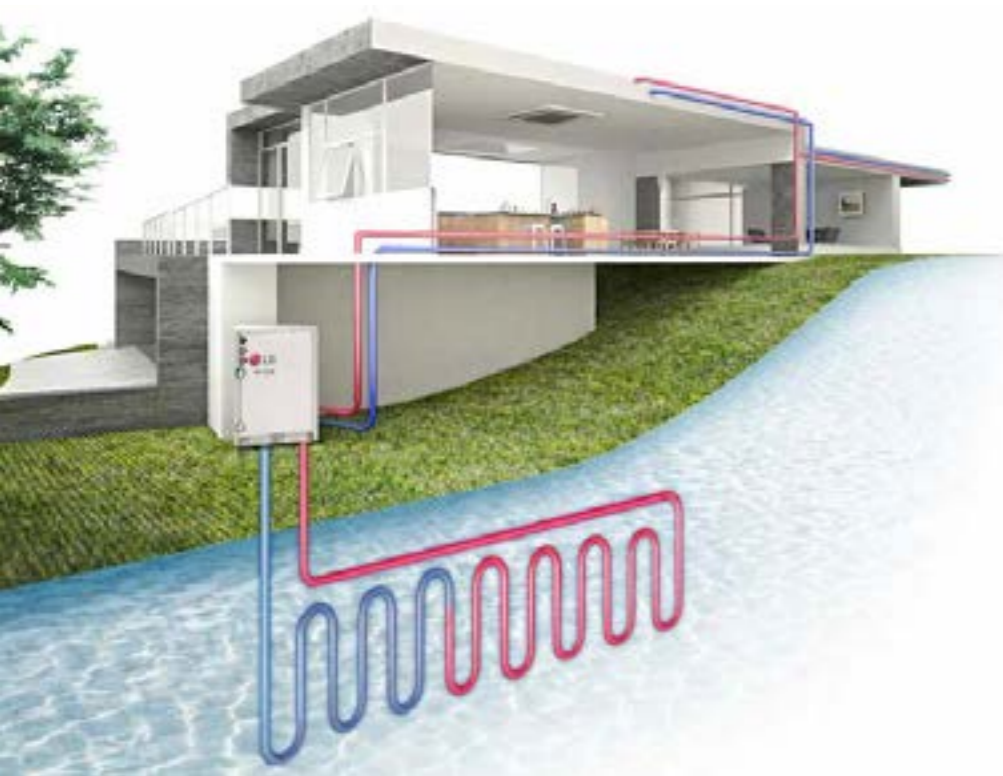
Our primary goal is to 'Vitalise every environment' around the globe—from private residences to commercial buildings and communal spaces. To make this a reality, the company has developed a comprehensive range of innovative Heating, Ventilation and Air Conditioning (HVAC) products, as well as state-of-the-art energy solutions. One such product is the advanced MULTI V IV Variable Refrigerant Flow (VRF), which delivers incredible performance and energy efficiency through a number of proprietary LG technologies. VRF solutions are widely considered to be among the most versatile and powerful system air conditioners available. Providing exceptional comfort, energy efficiency and reliability, they are highly regarded by building managers, business operators and HVAC engineers. VRF solutions boast a number of other tangible benefits including cost effectiveness and easier installation. Thanks to significant advancements in HVAC technology, VRF systems are now able to offer great performance capabilities along with reduced energy consumption. Nevertheless, LG continues to focus on removing causes of 'hidden loss,' thereby further improving operational efficiency and passing on energy savings to the consumer. Through close observation, testing, analysis and extensive R&D, LG has been able to cut energy loss. The results of this endeavor can clearly be seen in the company's finest achievement to date, MULTI V IV.

Thermal Energy Solution

River, Sea, Ground water and Geothermal. We are finding solutions to harness energy from our natural environment.

Cooling Tower Source

It is also possible to adopt pre-existing cooling towers when installing Multi V Water IV.



Water as a Natural Heat Source

Ground water, lake, river and sea can be sources of natural energy. The heat pump solution utilises the thermal energy in the water to air condition buildings and houses.



High Efficiency

Multi V Water IV delivers excellent energy efficiency, helping to significantly reduce the energy consumption of a building.

*ARWN080LAS4 and ARNB080LAS4 models only.



Geothermal Heat Source

The Multi V Water IV solution absorbs the heat from the soil and ground for cooling and heating.

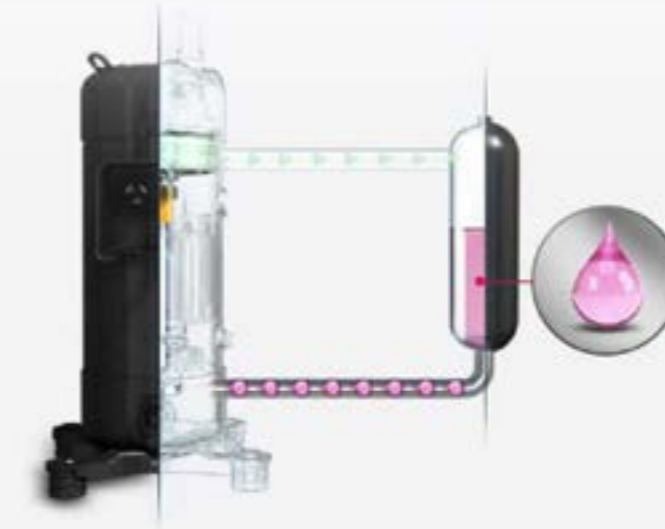


High Efficiency Regardless of External Conditions

Independent of outdoor temperature and environment conditions, Multi V Water IV is a great solution for high-rise buildings.

4th Generation Inverter Compressor

Multi V Water IV with our fourth generation inverter compressor boasts our most efficient compressor design yet.



HIPOR™ (High Pressure Oil Return)

HIPOR™ technology improves compressor efficiency and part load efficiency by directly injecting oil into the compressor.



Variable Water Flow Control Valve

LG applied the variable water flow control system to reduce circulation pump energy consumption, and to optimise system performance.



Smart Oil Return

The Smart Oil Return system operates only when required. It helps improve the compressor's reliability, and minimise downtime caused by oil recovery.



Easy Installation

The flexible design and large capacity of Multi V Water IV helps to make it more convenient to install.



Expanded Piping Capabilities

Multi V Water IV boasts long piping capabilities. 300 metres in total piping length (longest piping length between outdoor & farthest indoor unit is 150 metres).



Lightweight Outdoor Units

Multi V Water IV is easier to handle and install due to lightweight outdoor units.

MULTI V[®] WATER IV | HEAT RECOVERY



ARWB080LAS4 / ARWB100LAS4 / ARWB120LAS4

Class				8	10	12
Model	Combination Unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
	Independent Unit			ARWB080LAS4	ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	Nom	kW	22.4	28.0	33.6
	Heating	Nom	kW	25.2	31.5	37.8
Power Input	Cooling	Nom	kW	3.86	5.09	6.46
	Heating	Nom	kW	4.20	5.34	6.75
EER	Cooling			5.80	5.50	5.20
COP	Heating			6.00	5.90	5.60
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1
Sound Pressure	Cooling	Nom	dBA	47	50	56
	Heating	Nom	dBA	51	53	56
Sound Power	Cooling	Nom	dBA	59	62	68
	Heating	Nom	dBA	63	65	68
Dimensions	W x H x D		mm	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Net Weight			kg	127 x 1	127 x 1	127 x 1
Refrigerant	Type			R410A	R410A	R410A
	Charge			kg	5.8	5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	1,800	1,800
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm ²	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300	300
	Actual Longest Piping Length	Max	m	150	150	150
	After 1st Y branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50	50
	IDU - IDU	Max	m	40	40	40
Piping Connection	Liquid			mm (inch)	9.52 (3/8)	9.52 (3/8)
	Low Pressure Gas			mm (inch)	22.2 (7/8)	22.2 (7/8)
	High Pressure Gas			mm (inch)	19.05 (3/4)	19.05 (3/4)
Number of Outdoor Units				1	1	1
Number of Connectable Indoor Units			Max	20	25	30
Ratio of the Connectable Indoor Units			Min - Max	50 - 200%	50 - 200%	50 - 200%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45	45
	Rated Water Flow			L / min	77	96
	Head Loss			kPa	11	16
Water Connection pipe	Inlet			mm	PT 40	PT 40
	Outlet			mm	PT 40	PT 40
	Drain Outlet			mm	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V[®] WATER IV | HEAT RECOVERY



ARWB140LAS4 / ARWB160LAS4
ARWB180LAS4 / ARWB200LAS4

Class				14	16	18	20
Model	Combination Unit			ARWB140LAS4	ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
	Independent Unit			ARWB140LAS4	ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	39.2	44.8	50.4	56.0
	Heating	Nom	kW	44.1	50.4	56.7	63.0
Power Input	Cooling	Nom	kW	7.84	8.15	9.69	11.20
	Heating	Nom	kW	8.17	8.54	10.13	11.67
EER	Cooling			5.00	5.50	5.20	5.00
COP	Heating			5.40	5.90	5.60	5.40
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			1	1	1	1
Sound Pressure	Cooling	Nom	dBA	58	53	55	54
	Heating	Nom	dBA	57	57	56	60
Sound Power	Cooling	Nom	dBA	70	65	67	66
	Heating	Nom	dBA	69	69	68	72
Dimensions	W x H x D		mm	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1	(755 x 997 x 500) x 1
Net Weight			kg	127 x 1	140 x 1	140 x 1	140 x 1
Refrigerant	Type			R410A	R410A	R410A	R410A
	Charge			kg	5.8	3.0	3.0
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	1,800	1,800	1,800
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)			No. x mm ²	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300	300	300
	Actual Longest Piping Length	Max	m	150	150	150	150
	After 1st Y branch	Max	m	40	40	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50	50	50
	IDU - IDU	Max	m	40	40	40	40
Piping Connection	Liquid			mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Low Pressure Gas			mm (inch)	25.4 (1)	28.58 (1-1/8)	28.58 (1-1/8)
	High Pressure Gas			mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Number of Outdoor Units				1	1	1	1
Number of Connectable Indoor Units			Max	35	40	45	50
Ratio of the Connectable Indoor Units			Min - Max	50 - 200%	50 - 200%	50 - 200%	50 - 200%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45	45	45
	Rated Water Flow			L / min	135	154	173
	Head Loss			kPa	29	20	25
Water Connection pipe	Inlet			mm	PT 40	PT 40	PT 40
	Outlet			mm	PT 40	PT 40	PT 40
	Drain Outlet			mm	20	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V[®] WATER IV | HEAT RECOVERY

ARWB220LAS4 / ARWB240LAS4



Class				22	24
Model	Combination Unit			ARWB220LAS4	ARWB240LAS4
	Independent Unit			ARWB120LAS4	ARWB120LAS4
				ARWB100LAS4	ARWB120LAS4
Capacity	Cooling	Nom	kW	61.6	67.2
	Heating	Nom	kW	69.3	75.6
Power Input	Cooling	Nom	kW	11.55	12.92
	Heating	Nom	kW	12.09	13.50
EER	Cooling			5.33	5.20
COP	Heating			5.73	5.60
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure	Cooling	Nom	dB(A)	57	57
	Heating	Nom	dB(A)	57	57
Sound Power	Cooling	Nom	dB(A)	40	70
	Heating	Nom	dB(A)	70	70
Dimensions	W x H x D			mm	(755 x 997 x 500) x 2
Net Weight				kg	127 x 2
Refrigerant	Type			R410A	R410A
	Charge			kg	5.8 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm ²	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	150
	After 1st Y branch	Max	m	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50
	IDU - IDU	Max	m	40	40
Piping Connection	Liquid		mm (inch)	19.05 (3/4)	19.05 (3/4)
	Low Pressure Gas		mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)
	High Pressure Gas		mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units	Max			44	48
Ratio of the Connectable Indoor Units	Min - Max			50 - 160%	50 - 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45
	Rated Water Flow		L / min	116 + 96	116 + 116
	Head Loss		kPa	22 + 16	22 + 22
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V[®] WATER IV | HEAT RECOVERY

ARWB260LAS4 / ARWB280LAS4



Class				26	28
Model	Combination Unit			ARWB260LAS4	ARWB280LAS4
	Independent Unit			ARWB140LAS4	ARWB140LAS4
				ARWB120LAS4	ARWB140LAS4
Capacity	Cooling	Nom	kW	72.8	78.4
	Heating	Nom	kW	81.9	88.2
Power Input	Cooling	Nom	kW	14.30	15.68
	Heating	Nom	kW	14.92	16.34
EER	Cooling			5.09	5.00
COP	Heating			5.49	5.40
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2
Sound Pressure	Cooling	Nom	dB(A)	59	59
	Heating	Nom	dB(A)	58	58
Sound Power	Cooling	Nom	dB(A)	72	72
	Heating	Nom	dB(A)	71	71
Dimensions	W x H x D			mm	(755 x 997 x 500) x 2
Net Weight				kg	127 x 2
Refrigerant	Type			R410A	R410A
	Charge			kg	5.8 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)				No. x mm ²	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300
	Actual Longest Piping Length	Max	m	150	150
	After 1st Y branch	Max	m	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50
	IDU - IDU	Max	m	40	40
Piping Connection	Liquid		mm (inch)	19.05 (3/4)	19.05 (3/4)
	Low Pressure Gas		mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)
	High Pressure Gas		mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Outdoor Units				2	2
Number of Connectable Indoor Units	Max			52	56
Ratio of the Connectable Indoor Units	Min - Max			50 - 160%	50 - 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45
	Rated Water Flow		L / min	135 + 116	135 + 135
	Head Loss		kPa	29 + 22	29 + 29
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV | HEAT RECOVERY



ARWB300LAS4 / ARWB320LAS4 / ARWB340LAS4

Class				30	32	34
Model	Combination Unit			ARWB300LAS4	ARWB320LAS4	ARWB340LAS4
	Independent Unit			ARWB160LAS4	ARWB180LAS4	ARWB200LAS4
				ARWB140LAS4	ARWB140LAS4	ARWB140LAS4
Capacity	Cooling	Nom	kW	84.0	89.6	95.2
	Heating	Nom	kW	94.5	100.8	107.1
Power Input	Cooling	Nom	kW	15.99	17.53	19.04
	Heating	Nom	kW	16.71	18.30	19.84
EER	Cooling			5.25	5.11	5.00
COP	Heating			5.66	5.51	5.40
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure	Cooling	Nom	dB(A)	59	59	59
	Heating	Nom	dB(A)	58	58	61
Sound Power	Cooling	Nom	dB(A)	72	72	72
	Heating	Nom	dB(A)	71	71	74
Dimensions	W x H x D			mm	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Net Weight				kg	(127 x 1) + (140 x 1)	(127 x 1) + (140 x 1)
Refrigerant	Type			R410A	R410A	R410A
	Charge			kg	3.0 + 5.8	3.0 + 5.8
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600	3,600
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)	No. x mm ²			2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300	300
	Actual Longest Piping Length	Max	m	150	150	150
	After 1st Y branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50	50
	IDU - IDU	Max	m	40	40	40
Piping Connection	Liquid		mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Low Pressure Gas		mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
	High Pressure Gas		mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Number of Outdoor Units				2	2	2
Number of Connectable Indoor Units	Max			60	64	64
Ratio of the Connectable Indoor Units	Min - Max			50 - 160%	50 - 160%	50 - 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45	45
	Rated Water Flow		L / min	154 + 135	173 + 135	192 + 135
	Head Loss		kPa	20 + 29	25 + 29	31 + 29
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV | HEAT RECOVERY



ARWB360LAS4 / ARWB380LAS4 / ARWB400LAS4

Class				36	38	40
Model	Combination Unit			ARWB360LAS4	ARWB380LAS4	ARWB400LAS4
	Independent Unit			ARWB180LAS4	ARWB200LAS4	ARWB200LAS4
				ARWB180LAS4	ARWB180LAS4	ARWB200LAS4
Capacity	Cooling	Nom	kW	100.8	106.4	112.0
	Heating	Nom	kW	113.4	119.7	126.0
Power Input	Cooling	Nom	kW	19.38	20.89	22.40
	Heating	Nom	kW	20.26	21.80	23.34
EER	Cooling			5.20	5.09	5.00
COP	Heating			5.60	5.49	5.40
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor			2	2	2
Sound Pressure	Cooling	Nom	dB(A)	56	56	55
	Heating	Nom	dB(A)	57	61	61
Sound Power	Cooling	Nom	dB(A)	69	69	68
	Heating	Nom	dB(A)	70	74	74
Dimensions	W x H x D			mm	(755 x 997 x 500) x 2	(755 x 997 x 500) x 2
Net Weight				kg	140 x 2	140 x 2
Refrigerant	Type			R410A	R410A	R410A
	Charge			kg	3.0 + 3.0	3.0 + 3.0
Refrigerant Oil	Type			FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Control			cc	3,600	3,600
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60	3 / 380-415 / 50, 60	3 / 380-415 / 50, 60
Transmission Cable (VCTF-SB)	No. x mm ²			2C x 1.0-1.5	2C x 1.0-1.5	2C x 1.0-1.5
Piping Length	Total	Max	m	300	300	300
	Actual Longest Piping Length	Max	m	150	150	150
	After 1st Y branch	Max	m	40	40	40
Piping Level Difference	IDU - ODU	Max	m	50	50	50
	IDU - IDU	Max	m	40	40	40
Piping Connection	Liquid		mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Low Pressure Gas		mm (inch)	41.3 (1-5/8)	41.3 (1-5/8)	41.3 (1-5/8)
	High Pressure Gas		mm (inch)	34.9 (1-3/8)	34.9 (1-3/8)	34.9 (1-3/8)
Number of Outdoor Units				2	2	2
Number of Connectable Indoor Units	Max			64	64	64
Ratio of the Connectable Indoor Units	Min - Max			50 - 160%	50 - 160%	50 - 160%
Heat Exchanger	Type			Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max	kgf / cm ²	45	45	45
	Rated Water Flow		L / min	173 + 173	192 + 173	192 + 192
	Head Loss		kPa	25 + 25	31 + 25	31 + 31
Water Connection pipe	Inlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Outlet		mm	PT 40 + PT 40	PT 40 + PT 40	PT 40 + PT 40
	Drain Outlet		mm	20	20	20

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV HEAT RECOVERY



ARWB420LAS4 / ARWB440LAS4 / ARWB460LAS4
ARWB480LAS4 / ARWB500LAS4

Class				42	44	46	48	50	
Model	Combination Unit			ARWB420LAS4	ARWB440LAS4	ARWB460LAS4	ARWB480LAS4	ARWB500LAS4	
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	
				ARWB120LAS4	ARWB120LAS4	ARWB140LAS4	ARWB140LAS4	ARWB160LAS4	
Capacity	Cooling	Nom	kW	117.6	123.2	128.8	134.4	140.0	
	Heating	Nom	kW	132.3	138.6	144.9	151.2	157.5	
Power Input	Cooling	Nom	kW	22.75	24.12	25.50	26.88	27.19	
	Heating	Nom	kW	23.76	25.17	26.59	28.01	28.38	
EER	Cooling				5.17	5.11	5.05	5.00	5.15
COP	Heating				5.57	5.51	5.45	5.40	5.55
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C	10°C - 45°C	10°C - 45°C	
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	
Compressor	Type			Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Number of Compressor			3	3	3	3	3	
Sound Pressure	Cooling	Nom	dBA	58	58	60	60	60	
	Heating	Nom	dBA	62	62	62	62	62	
Sound Power	Cooling	Nom	dBA	72	72	74	74	74	
	Heating	Nom	dBA	76	76	76	76	76	
Dimensions	W x H x D			mm					
Net Weight				kg					
Refrigerant	Type			R410A					
	Charge			kg					
Refrigerant Oil	Type			FVC68D (PVE)					
	Control			cc					
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60					
Transmission Cable (VCTF-SB)				No. x mm ²					
Piping Length	Total	Max	m	300					
	Actual Longest Piping Length	Max	m	150					
	After 1st Y branch	Max	m	40					
Piping Level Difference	IDU - ODU	Max	m	50					
	IDU - IDU	Max	m	40					
Piping Connection	Liquid	mm (inch)			19.05 (3/4)				
	Low Pressure Gas	mm (inch)			41.3 (1-5/8)				
	High Pressure Gas	mm (inch)			34.9 (1-3/8)				
Number of Outdoor Units				3					
Number of Connectable Indoor Units				Max					
Ratio of the Connectable Indoor Units				Min - Max					
Heat Exchanger	Type			Stainless Steel Plate					
	Pressure Resistance	Max	kgf / cm ²	45					
	Rated Water Flow	L / min			192 + 116 + 96				
Water Connection pipe	Head Loss			kPa					
	Inlet			mm					
Outlet			mm						
Drain Outlet			mm						

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
 2. Capacities are nominal capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB. (For more information on installation section.)

MULTI V WATER IV HEAT RECOVERY



ARWB520LAS4 / ARWB540LAS4 / ARWB560LAS4
ARWB580LAS4 / ARWB600LAS4

Class				52	54	56	58	60	
Model	Combination Unit			ARWB520LAS4	ARWB540LAS4	ARWB560LAS4	ARWB580LAS4	ARWB600LAS4	
	Independent Unit			ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	ARWB200LAS4	
				ARWB180LAS4	ARWB200LAS4	ARWB180LAS4	ARWB200LAS4	ARWB200LAS4	
Capacity	Cooling	Nom	kW	145.6	151.2	156.8	162.4	168.0	
	Heating	Nom	kW	163.8	170.1	176.4	182.7	189.0	
Power Input	Cooling	Nom	kW	28.73	30.24	30.58	32.09	33.60	
	Heating	Nom	kW	29.97	31.51	31.93	33.47	35.01	
EER	Cooling				5.07	5.00	5.13	5.06	5.00
COP	Heating				5.47	5.40	5.52	5.46	5.40
Operation Range	Cooling	Min - Max	°C DB	10°C - 45°C	10°C - 45°C	10°C - 45°C	10°C - 45°C	10°C - 45°C	
	Heating	Min - Max	°C WB	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	-5°C - 45°C	
Compressor	Type			Hermetically Sealed Scroll					
	Number of Compressor			3					
Sound Pressure	Cooling	Nom	dBA	60	60	57	57	56	
	Heating	Nom	dBA	62	62	62	62	62	
Sound Power	Cooling	Nom	dBA	74	74	71	71	70	
	Heating	Nom	dBA	76	76	76	76	76	
Dimensions	W x H x D			mm					
Net Weight				kg					
Refrigerant	Type			R410A					
	Charge			kg					
Refrigerant Oil	Type			FVC68D (PVE)					
	Control			cc					
Power Supply	Ø / V / Hz			3 / 380-415 / 50, 60					
Transmission Cable (VCTF-SB)				No. x mm ²					
Piping Length	Total	Max	m	300					
	Actual Longest Piping Length	Max	m	150					
	After 1st Y branch	Max	m	40					
Piping Level Difference	IDU - ODU	Max	m	50					
	IDU - IDU	Max	m	40					
Piping Connection	Liquid	mm (inch)			19.05 (3/4)				
	Low Pressure Gas	mm (inch)			41.3 (1-5/8)				
	High Pressure Gas	mm (inch)			34.9 (1-3/8)				
Number of Outdoor Units				3					
Number of Connectable Indoor Units				Max					
Ratio of the Connectable Indoor Units				Min - Max					
Heat Exchanger	Type			Stainless Steel Plate					
	Pressure Resistance	Max	kgf / cm ²	45					
	Rated Water Flow	L / min			192 + 173 + 135				
Water Connection pipe	Head Loss			kPa					
	Inlet			mm					
Outlet			mm						
Drain Outlet			mm						

Note : 1. Capacities and Inputs are based on the following conditions
 - Cooling : Indoor temp. 27°C (80.6°F) DB / 19°C (66.2°F) WB, Water inlet temp. 30°C (86°F), Interconnecting piping length 7.5m, Level difference of zero - Heating : Indoor temp. 20°C (68°F) DB, Water inlet temp. 20°C (68°F)
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